

Telephone:
Fax:
VAT Registration No.:

Name:		Manufacturer:	Isuzu
Address:		Model:	
		Year:	
		Registration:	
Tel - Private:		Mileage:	
Tel - Business:		Job number:	

Important note

Important note

The intervals and procedures given are subject to alteration by the manufacturer at any time. Check the regularly updated Timing Belts section on our website to ensure that you are kept informed of any changes that may occur between issues of the Autodata CD.

<http://www.autodata-cd.com>

Timing belt replacement intervals

The information relating to timing belt replacement intervals is additional to the main purpose of this CD, but is included to provide guidance to garages and for customer advice.

Where possible the recommended intervals have been compiled from vehicle manufacturers' information. In a few instances no recommendation has been made by the manufacturer and the decision to replace the belt must be made from the evidence of a thorough examination of the condition of the existing belt.

Apart from the visible condition of the belt, which is explained fully later in this section, there are several other factors which must be considered when checking a timing belt:

1. Is the belt an original or a replacement.
2. When was the belt last replaced and was it at the correct mileage.
3. Is the service history of the vehicle known.
4. Has the vehicle been operated under arduous conditions which might warrant a shorter replacement interval.
5. Is the general condition of other components in the camshaft drive, such as the tensioner, pulleys, and other ancillary components driven by the timing belt, typically the water pump, sound enough to ensure that the life of the replacement belt

Manufacturer: Isuzu
Engine code: 4JB1T
Tuned for:

Model: Trooper 2,8D Turbo
Output: 71 (97) 3700
Year: 1988-92

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will not be affected.

6. If the condition of the existing belt appears good, can you be satisfied that the belt will not fail before the next check or service is due.
7. If the belt does fail, have you considered the consequences. If the engine is an INTERFERENCE type then considerable expensive damage may well be the result.
8. The cost of replacing a belt as part of a routine service could be as little as 5 to 10% of the repair cost following a belt failure. Make sure your customer is aware of the consequences.
9. If in doubt about the condition of the belt - RENEW it.

Replacement Interval Guide

Replacement Interval Guide

Isuzu recommend replacement every 60,000 miles (pre 92) or every 54,000 miles or 72 months (1992 ➔).

The previous use and service history of the vehicle must always be taken into account.

Check For Engine Damage

Check For Engine Damage

CAUTION: This engine has been identified as an INTERFERENCE engine in which the possibility of valve-to-piston damage in the event of a timing belt failure is **MOST LIKELY** to occur.

A compression check of all cylinders should be performed before removing the cylinder head.

Repair Times - hrs

Repair Times - hrs

Trooper Diesel 1986-92	
Remove and install	2,00
Remove and install - PAS	2,20

Special Tools

Special Tools

- Spring balance.

Special Precautions

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Special Precautions

- Disconnect battery earth lead.
- DO NOT turn crankshaft or camshaft when timing belt removed.
- Remove glow plugs to ease turning engine.
- Turn engine in normal direction of rotation (unless otherwise stated).
- DO NOT turn engine via camshaft or other sprockets.
- Observe all tightening torques.
- Check diesel injection pump timing after belt replacement.

Removal

Removal

1. Drain coolant.
2. Remove:
 - Auxiliary drive belts.
 - Cooling fan.
 - Water pump pulley.
 - Timing belt upper cover [1].
 - Crankshaft pulley (4 bolts) [3].
 - Timing belt lower cover [2].
 - Coolant pipe from front of engine.
 - Camshaft sprocket flange [6].
 - Injection pump sprocket flange [7].
3. Turn crankshaft clockwise to TDC on No.1 cylinder. Ensure timing marks aligned [10].
4. Screw suitable locking bolts into camshaft and injection pump sprockets [4] & [5].
5. Remove tensioner lever [8].
6. Slacken tensioner pulley bolt [9]. Move tensioner away from belt. Lightly tighten bolt.
7. Remove timing belt.

Installation

Installation

1. Ensure locking bolts located correctly [4] & [5].
2. Ensure timing marks aligned [10].
3. Fit timing belt in clockwise direction, starting at crankshaft sprocket.
NOTE: 'ISUZU' lettering on belt should be readable from front of engine [16]10430.
4. Slacken tensioner pulley bolt [9]. Push tensioner pulley against belt.
5. Ensure belt is taut between injection pump sprocket and tensioner pulley as well as crankshaft sprocket and camshaft sprocket.
6. Position tensioner lever [8] against tensioner pulley housing.
7. Remove locking bolts from sprockets [4] & [5].
8. Apply a load of 10-12 kg to tensioner lever. Use spring balance [11].
NOTE: 4JG2T (1992 →): Apply a load of 9 kg to tensioner lever.
9. Tighten tensioner pulley bolt to 80 Nm.
10. Turn crankshaft slowly 45° anti-clockwise. Use spring balance to tension belt.
11. Repeat tensioning procedure at 45° intervals for one anti-clockwise turn of the crankshaft.

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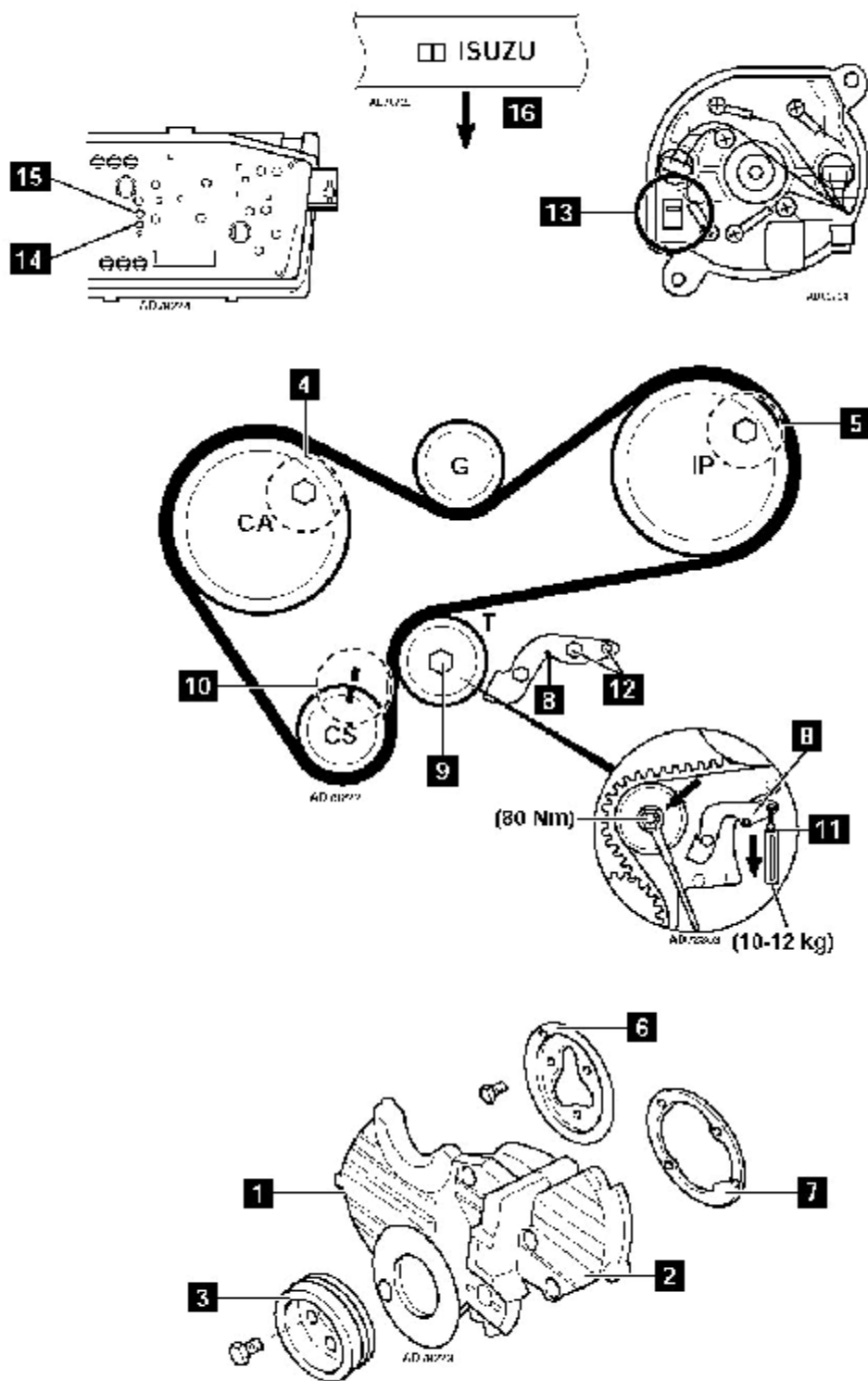
NOTE: DO NOT turn crankshaft clockwise during tensioning procedure.

12. Fit tensioner lever to original position. Tighten nuts [12].
13. Install:
 - Injection pump sprocket flange [6].
 - Camshaft sprocket flange [7].
 - Water pump pulley.
14. Install components in reverse order of removal.
15. Refill coolant.
16. 2,8: Reset timing belt replacement warning lamp as follows:
 - Remove speedometer and operate switch [13].
17. 3,1: Reset timing belt replacement warning lamp as follows:
 - Remove instrument panel.
 - Remove masking tape from hole [14].
 - Remove screw from hole [15].
 - Insert screw removed from hole [15] in hole [14] and cover hole [15] with masking tape.
 - Fit instrument panel.
 - Reverse procedure if timing belt previously changed.

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